MR FORM 1
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MINING APPLICATION
NO. ACT-045-004
Date: March 9, 1977

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

NOTICE OF INTENTION TO COMMENCE MINING OPERATIONS
(See Rule M of General Rules and Regulations)

1. Name of Applicant or Company The Anaconda Company
Corporation (X) Partnership ( ) Individual ( )

2. Address R.F.D. #1, Box 79, Tooele, Utah 84074
Permanent ~~XXXXXX~~

3. Name and title of erson representing Company J. F. Anderson

4. Address As above Office Phone 801-882-1431

5. Location of Operation Tooele County Sec. 17,18,19,20 21,29, 28,12,13,14, 23,24 T. 3S T3S R. 3W R3W

6. Name of Mine Carr Fork

7. Mineral to be mined:

( )	Coal	( )	Flagstone
(X)	Copper	( )	Gravel
( )	Manganese	( )	Shale
( )	Iron Ore	( )	Uranium
( )	Phosphate	( )	Gilsonite
( )	Potash	( )	Bituminous Sandstone
( )	Fluorspar	( )	Tungsten
( )	Other (Specify)		

Mining Method:
Blasthole Room & Pillar

8. Have you or any Person, Partnership or Corporation associated with you received an approved Notice of Intention to Commence Mining Operations by the State of Utah for operations other than described herein?
( ) Yes (X) No
If yes, list all approval numbers now under surety:

9. Owner/Owners of record of the surface area within the land to be affected:
Anaconda Address As above
Bingham Development Company Address 1849 West No. Temple Salt Lake City, Utah
Address

10. Owner/Owners of record of minerals to be mined:

Anaconda	Address	As above
New Bingham - Mary	Address	1849 West No. Temple Salt Lake City, Utah
	Address	
	Address	

11. Owner/Owners of record of all other minerals within any part of the land affected:

Anaconda	Address	As above
	Address	
	Address	
	Address	

11a. Have the above owners been notified in writing?
( ) Yes (X) No

12. Source of Operator's legal right to enter and conduct operations on land to be covered by the Notice Land holdings

13. Approximate acreage to be disturbed:

Mining operation area (include operations, storage, and disposal area):

	512	acres +
Access Road or Haulageway:	20	acres +
Drainage System:		acres =
Total Acres:	532	acres

14. Give the names and post office addresses of every principal Executive, Officer, Partner, (or Person performing a similar function) of Applicant:

	Name	Title	Address
a.	J.F. Anderson	Manager	R.F.D. #1, Tooele
b.	A. H. Ditto	Gen. Mine Supt.	R.F.D. #1, Tooele
c.	R.N. Lovlin	Plant Superint.	R.F.D. #1, Tooele
d.	J.W. Butwell	Mill Supert.	R.F.D. #1, Tooele

15. Has Applicant, any Subsidiary or Affiliate or any Person, Partnership, Association, Trust or Corporation controlled by or under common control with Applicant, or any Person required to be identified by Item 14, ever had an approval of a Notice of Intention withdrawn or has surety relating thereto ever been forfeited? Yes ( ) No (X)

If yes, explain:

STATE OF UTAH

COUNTY OF TOOELE

I, J F Anderson, having been duly sworn depose and attest that all of the representations contained in the foregoing application are true to the best of my knowledge; that I am authorized to complete and file this application on behalf of the applicant and this application has been executed as required by law.

Signed: J Anderson

Taken, subscribed and sworn to before me the undersigned authority in my said county, this 8TH day of MARCH, 1977.

Notary Public: M. L. Mayne

My Commission Expires: My Commission Expires Nov. 1, 1980

MINING APPLICATION NO. _____

Date: _____

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
1588 West North Temple
Salt Lake City, Utah 84116

MINING AND RECLAMATION PLAN

(Other forms may be used in lieu of MRA 2, provided they contain the same information.)

1. Name of Applicant or Company The Anaconda Company

2. Proposed type of operation Underground mine

3. (a) Prior Land Use(s) Wildlift habitat _____
   Planned
   (b) ~~Existing~~ Land Use(s) Underground mine and concentrator

   (c) Possible or Prospective Future Land Use(s) Wildlife habitat

4. What vegetation exists on the land proposed to be affected _____

   Sparse vegetation - desert grasses and shrubs

   (a) Types and Estimated Percent Cover or Density: _____

   _____

5. What is the range pH of soil before mining? 5.3 - 6.0 pH.

   Name of Person or Agency and method of determining pH _____

   Soil Testing laboratory - Utah State University

6. Site elevation above sea level 5000-6500

7. In case of coal, oil shale, and bituminous sandstone:

   Principal seam(s) and thickness(es) _____ - _____

8. Estimated duration of mining operations 20 years

9. Has overburden, waste or rejected materials been classified as acid or alkali producing? ( ) Yes (X) No
   Does the above material being moved have any other characterisitics affecting revegetation? Negligible nutrient value

10. Will any underground workings or aquifers be encountered? (X) Yes ( ) No
    Describe Normal flows encountered in a deep underground mine.

    Is there an active discharge of water from abandoned deep mines on or crossing the land affected? (X) Yes ( ) No If Yes, describe the quality of water being discharged. See chemical analysis attached.

11. Describe specifically a detailed procedure for:

a. The mining sequence.
b. The procedure for constructing and maintaining access roads, to include a typical cross-section and a profile of the proposed road grades.
c. The procedure for site preparation including removing trees and brush.
d. The method for removing and stockpiling topsoil or disturbed materials.
e. The method for the placement or containment of all disturbed materials, to include the method for handling of all acid or alkali-producing and toxic material.
f. A procedure for final stabilization of disturbed materials.

GRADING AND REGRADING

Specifically describe:

a. Typical cross-section of regrading.
b. The method of spreading topsoil or upper horizon material on the regraded area and indicate the approximate thickness of the final surfacing material.
c. What type of soil treatment will be utilized.
d. The method of drainage control for the final regraded area.
e. Maximum grading slope.

TESTING

1. a. Describe method for testing stability of reclamation fill material.
None

b. Describe method for the testing of soil that is intended to support vegetation. Various reclamation methods will be tested during the operating phase of the project.

2. Describe any soil treatment employed as an aid to revegetation.

Scarification and fertilization if necessary.

3. Describe surface preparation of areas intended to support vegetation:

1. All non usable structures will be removed and the area cleared of all debris.

2. Contouring and scarification of surface as required.

REVEGETATION

1. Revegetation to be completed by:

(X) Operator
( ) Soil Conservation District
( ) Private Contractor _____ (Name)
( ) Other (Specify) _____

( ) Hydroseeding
( ) Aerial Seeding
( ) Conventional or Rangeland Drilling
( ) Other (Specify) _____

2. Will Mulch Be Used?
Type Possibly

If required, quantity will be determined by test plantings.
Rate/Acre _____ lbs.

3. Revegetation Plan and schedule -

Species	Rate/ acre	Planting location	Facing N-S-E-W	Season to to be Replanted
Will be established by test planings.				

4. Will affected area be subject to livestock or wildlife grazing: (X) yes ( ) No Will vegetation protection be needed? No

5. Will irrigation be used? (X) Yes ( ) No Type Watering truck

6. Describe maintenance procedures for revegetation if needed, until surety release is granted. Site will be inspected on a regular basis by personnel of Anaconda's Environmental Engineering Department.

I, the undersigned Operator, hereby submit this to be my Reclamation and Mining plan for the area shown on the attached map. I further understand that the operation will be conducted in accordance with the Mined Land Reclamation Act of 1975, and all rules and regulations currently in effect thereunder.

Signed _____ Operator, Date Mar 8/77.

Taken, subscribed and sworn to before me the undersigned authority in my said county, this 8TH day of March, 19 77.

Notary Public M. L. Maynard

My Commission Expires: My Commission Expires Nov. 1, 1980

11a. Shaft sinking, mine development work and concentrator construction will take place until late 1979. Then deep underground mining of a copper ore deposit will commence and continue for at least 20 years.

11b. A main access road, county road number B3 currently provides access to the site. The Tooele County work crews maintain this road.

11c. The mine and concentrator sites are in rocky areas which are very sparsely vegetated. The tailings disposal area is vegetated with grasses and small shrubs which will be scraped and disposed of behind the upstream face of the tailings dam. All soil removed will be either used on the dam face for revegetation purposes or stockpiled nearby.

11d. Typical earth moving equipment will be used.

11e. Tailings will enter the tailings disposal area through a pipeline as a slurry.

11f. Contouring and/or scarification of disturbed areas will be performed as required on all finished surface during operations. Revegetation will be accomplished through seeding and where necessary, fertilization. The types of seed used will be determined through consultation with the U.S. Soils Conservation Service or similar agency.

GRADING & REGRADING

a - The mine will employ underground mining methods. Major surface disturbance such as would be anticipated from an open pit operation are not anticipated. The finished profile of the tailings disposal area will be included in the design of the tailings disposal area which is not yet complete.

b - It is possible that the tailings material will adequately support some type of vegetation without a soil covering. Test plots will be used during the operational phase of the project to determine how revegetation will be accomplished.

c - Fertilization if the results from test areas indicate the need.

d - Culverts and suitably sloped ditches would be used to direct surface run-off to present drainage pattersn.

e - Maximum grading slope will be 2:1 unless experience gained during operation indicates a shallower grade is required.

CHEMICAL ANALYSIS OF MINE WATER DISCHARGE
AS OF JANUARY 15, 1977

pH	8.0
As	0.002
Fe	0.19
Pb	0.041
Zn	0.021
Cu	0.017
Mn	0.39
Ag	0.010
Cd	0.018
NO_3	1.95
PO_4	0.05
Cl	19.5
F	2.4
Ca	270
Mg	100
SO_4	889
Hardness	1089
TDS	1480

ANACONDA

March 7, 1977

State of Utah
Department of Natural Resources
Division of Oil, Gas & Mining
1588 West North Temple
Salt Lake City, Utah 84116

Dear Sir:

Please find enclosed a "Notice of Intention to Commence Mining Operations" and a "Mining and Reclamation Plan".

If additional information is required or questions arise please do not hesitate to contact me.

Yours sincerely,

J. F. Anderson, Manager
Carr Fork Project

JFA/jm

Encl.

RECEIVED
MAR 9 1977
DIVISION OF OIL, GAS, & MINING